Perea
Ray

MONITOR WELL PRE-SPUD PROPOSAL

1) **WELL NAME/NUMBER:** 700-D

2) **PROPOSED LOCATION:** (a) General (on or off-site) On-site

(attach map Site Area 700-Area Landfill

(b) Sect 26 Twnshp 20S Rng 3E SE ¼ NW ¼ SW ¼ NE ¼

3) **WELL PARAMETERS:**

(a) Est. total depth 400 (ft) (b) Est. ground elevation 4900 ft

(c) Anticipated stratigraphy:

Alluvium (Santa Fe Group) from 0 ' to 200 ' (depth)

Limestone from 200 ' to TD ' (depth)

(d) Anticipated water bearing horizon(s):

Limestone at 230 ' (depth)

(Look for a productive fracture)

(e) Anticipated static water level 220 ' (depth)

4) **WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):**

Investigate groundwater quality downgradient from the 700 Area Landfill.

5) **PROPOSED DRILLING PARAMETERS:**

(a) Drilling method(s): (air/foam/mud rotary/auger/etc.)

Mud Rotary from 0 ' to 100 (max)' (depth)

Air-Foam Rotary from 100 ' to TD ' (depth)

Air-foam method: "Quik-Foam" surfactant/water mixture used in conjunction with filtered compress air.

Mud-rotary method: Bentonite mud/water mixture.

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(b) Lithology sampling - collect sample every:

5' intervals Method Grab from 0 ' to TD ' (depth)
Core type 6" Dennison from ____ ' to None ' (depth)
2" Christiansen from ____ ' to None ' (depth)

(c) Anticipated drilling additive(s): None

7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

(a) Casing:	Material	Diameter	From	To	Comments
Temporary					
Surface		10"	0	100' max	
Screen (10')	stainless ++	4"	determine from geophysical logs		
Completion Pipe	stainless +	4"	0	TD	*

Standard material: Blank riser, silt trap, locking cap

N/A Data not available at this time
* for deep completions (450 feet or more)
** for shallow completions
\+ Type 304, Schedule 5 stainless steel
Type 304, Schedule 10 stainless steel
++ Regular strength screen, extra strength screen used below 450 feet

(b) Filter pack: Standard 8/20 and 16/40 sand and bentonite plug(s), grout to surface.

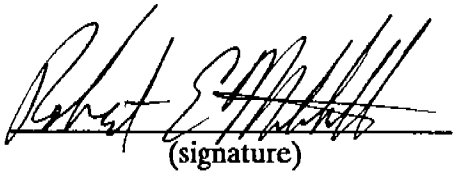
8) PROPOSED WELL DEVELOPMENT

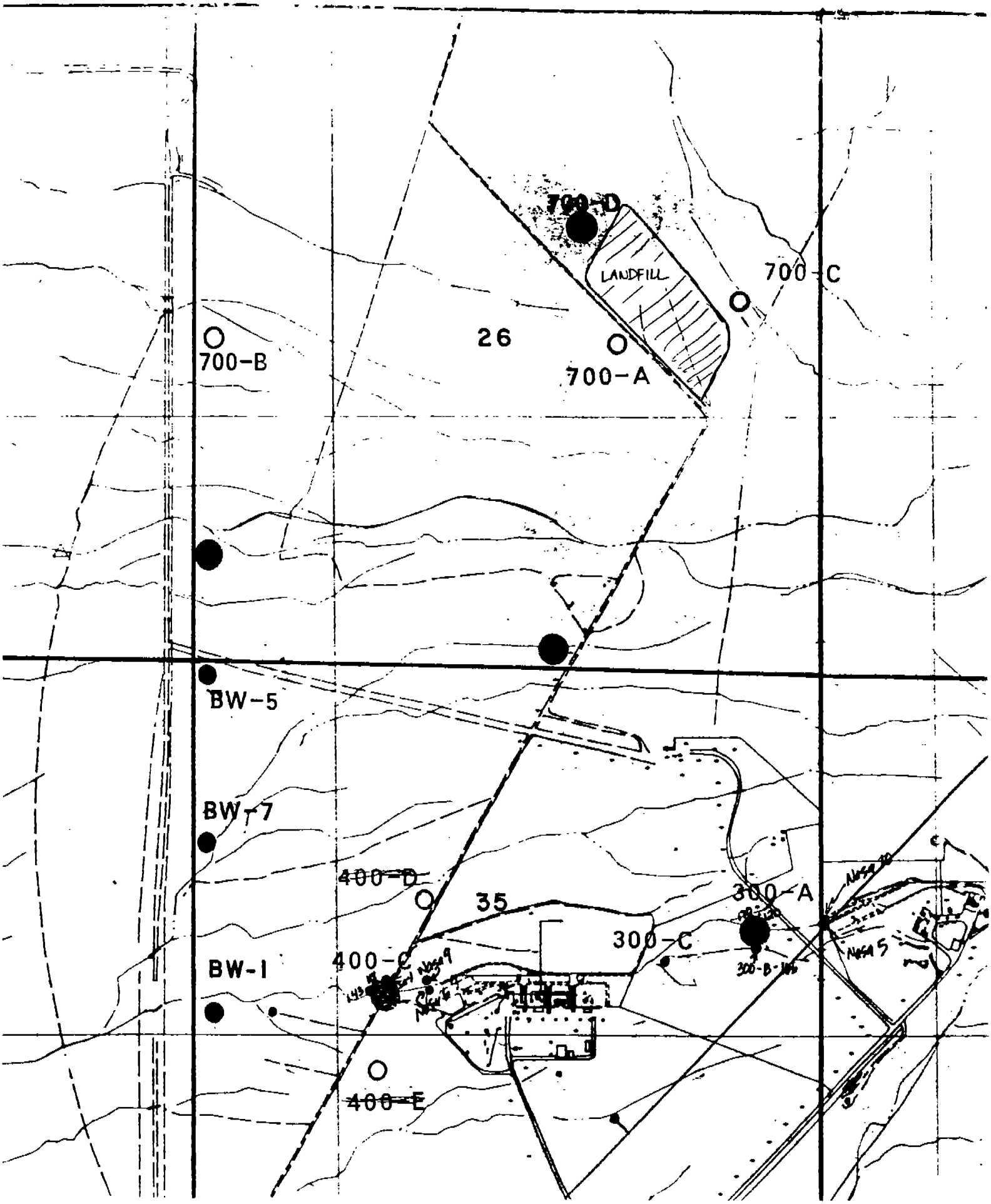
(a) Surge and bail with surge block and bailer.

(b) Pump with submersible pump until parameters stabilize.

9) WELL AUTHORIZATION

(a) Proposed by Geoscience Consultants, Ltd.

(b) Authorized Robert Mitchell (name) NASA (representing)  (signature)


700-D
LANDFILL
700-C
700-B
26
700-A
BW-5
BW-7
400-D
35
300-A
300-C
400-C
BW-1
400-E